



# Efficiency First: Home, Farm, Mobile Home, and More

Milton Geiger

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Fairbanks, Hawaii



**E<sup>3</sup>A**

Exploring Energy Efficiency and Alternatives →

### ALTERNATIVE ENERGY

- Choices such as installing Solar, Wind, Geothermal, or Biofuels Systems.



### EFFICIENCY: Investment In Longer Term Energy Savings

Choices such as:

- Install energy-efficient lighting, fixtures, windows, doors and appliances/equipment.
- Install water-efficient irrigation equipment, appliances and fixtures.
- Invest in Energy Star, EnergyGuide or WaterSense labels.
- Use timers to regulate fans, lights or other equipment
- Insulate structures



### CONSERVATION: Simple Everyday Actions

- Turn off lights, equipment, fans and appliances when not in use.
- Adjust thermostats in heated or cooled spaces.
- Use powerstrips for turning off phantom electrical loads.
- Caulk and use weatherstripping around windows and doors.
- Fix water leaks.
- Landscape with native and xeric plants, and utilize rain water.



### ASSESSMENT

- Assess your personal objectives and your current energy and water use to determine cost-effective strategies for implementing conservation and efficiency measures and integrating renewable energy systems.

← Complexity and Cost

# Conservation vs. Efficiency

## Conservation

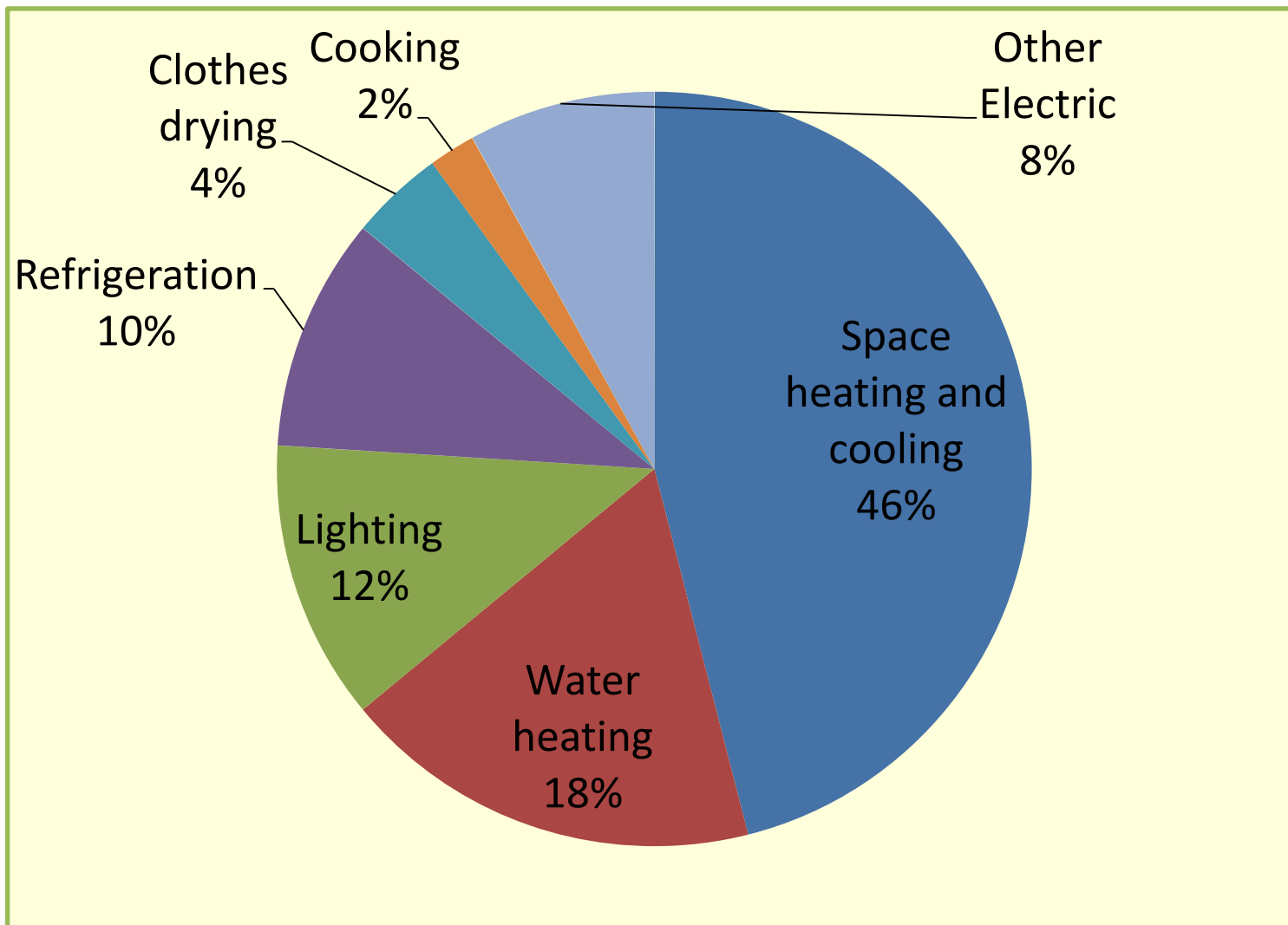


## Efficiency



# Home Energy Consumption

## Typical Cold Climate Use



Source: Montana Weatherization Training Center

# E3A Modules

- Home Energy
- Farm Energy
- Mobile Home Energy
- Irrigation Efficiency (forthcoming)

# Now...let's put away the PowerPoint

- Activity/Tools
  - Windows!
    - <http://efficientwindows.org/>
  - Refrigerators!
    - <http://www.energystar.gov/index.cfm?fuseaction=refrig.calculator>
  - Exit Signs!?!
    - <http://www.energy.gov/eere/femp/energy-and-cost-savings-calculators-energy-efficient-products>

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# Let's Discuss

- How to approach energy efficiency